

What is claimed is:

1. A fuel cell stack comprising:

5 a cell assembly formed by stacking a plurality of fuel cells in a stacking direction, said fuel cells each including an electrolyte electrode assembly including a pair of electrodes and an electrolyte interposed between said electrodes, and separators for sandwiching said electrolyte electrode assembly;

10 terminal plates provided outside opposite ends of said cell assembly in the stacking direction for collecting electricity from said fuel cell stack; and

15 at least one electrically conductive heat insulation plate, said heat insulation plate interposed between an end of said cell assembly in the stacking direction and said terminal plate,

wherein said heat insulation plate is a corrugated plate, and a heat insulation air chamber is defined between said heat insulation plate and said cell assembly.

20 2. A fuel cell stack according to claim 1, wherein protrusions for defining a fluid field extend along a surface of said separator provided at said end of said cell assembly in the stacking direction such that said protrusions for defining said fluid field face said heat insulation plate;

protrusions extend along a surface of said insulation

plate for defining a heat insulation space; and

said protrusions for defining said fluid field and said protrusions for defining said heat insulation space are in contact with each other.

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3. A fuel cell stack according to claim 2, wherein said protrusions for defining said fluid field extend across said protrusions for defining said heat insulation space.

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4. A fuel cell stack according to claim 2, wherein said protrusion for defining said heat insulation space has a curved cross section.

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5. A fuel cell stack according to claim 1, wherein said separator is a corrugated metal plate.